UNDP

UNITED NATIONS DEVELOPMENT PROGRAMME

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DP/PROJECTS/2696
(CPR/79/008)
1 August 1980
ENGLISH ONLY

APPROVAL OF UNDP ASSISTANCE TO A PROJECT OF THE GOVERNMENT OF CHINA

Strong Motion-Radio Telemetry Network (Earthquake Engineering), Beijing (CPR/79/008)

Report of the Administrator*

Date of present approval:	February 1980
Starting date of project activities:	February 1980
Planned completion date:	July 1982
To be executed by:	United Nations Educational, Scientific and Cultural Organization (UNESCO)
Government implementing agency:	State Capital Construction Commission
Estimated cost of assistance planned under present approval:	$ 587 300
Source of UNDP financing:	Indicative Planning Figure (IPF)

I. Background

1. The observation of strong earthquakes provides a scientific basis for earthquake engineering. With observational records, research on strong motion earthquakes and their effects on engineering structures can be conducted, as a result of which the law on the propagation and attenuation of strong motion earthquakes can be eventually established and earthquake response under various site conditions as well as the aseismic strength of various types of structures can be predicted. Such research thus provides a scientific basis for aseismic theory, which in turn paves the way for improving the aseismic design of buildings in China.

2. Beijing and its surrounding area have suffered much from strong-motion earthquakes. Present knowledge indicates that there is still the possibility of strong earthquakes in this area. Beijing, therefore, has been selected as the site for building a strong motion-radio telemetry network which will encompass an area around the city with a radius of 180 kilometres. The Government requested UNDP assistance for this purpose.

*In accordance with General Assembly resolution 2688 (XXV) and subsequent authori-

II. Objectives and activities

3. The objective of this project is to assist in the setting up of strong-motion radio telemetry network for the Beijing area and to record, process and analyse earthquake data in order to improve the aseismic design of buildings. To this end, the national and international staff working together will: (a) decide on the technical scheme of the network, including the design of its buildings, the selection of station sites, the equipment for strong-motion earthquake data recording and processing and radio telemetry; (b) order and install the equipment; and (c) train the staff for operation of the network and data recording and analysis.

III. Inputs

4. UNDP will provide, through the Executing Agency: consultants in strong motion equipment, and earthquake data processing, recording and analysis; a subcontract in data processing installation and in-service training; fellowships and study tours to study similar strong motion-radio telemetry networks and equipment for an observation system and for a data processing centre.

5. The Government will provide qualified professional and supporting staff, premises, equipment, and miscellaneous expenses.

IV. Financial data

6. The expenditure components of the planned assistance are as follows:

	$
Personnel	80 100
Subcontract	166 200
Training	76 000
Equipment	260 000
Miscellaneous	5 000
	587 300

7. The estimated total value, expressed in US dollars, of the inputs provided directly by the Government to the project is $508,000 in kind.

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